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FORM (REV. 0			E PATENT & TRADEMARK OFF	ICE	ATTORNEY'S DOCKET NUMBER 126464	
	D	ANSMITTAL LETTER TO T ESIGNATED/ELECTED OF ONCERNING A FILING UN	FICE (DO/EO/US))	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/562,467	
INTERNATIONAL APPLICATION NO. PCT/JP2004/009647 INTERNATIONAL FILING DATE July 7, 2004					PRIORITY DATE CLAIMED July 10, 2003	
		NVENTION GENERATING ELECTRODE AND	PLASMA REACTOR			
		TS FOR DO/EO/US 'AIRI et al.				
Appli	cant h	nerewith submits to the United State	s Designated/Elected O	ffice (DO/E	O/US) the following items and other information:	
1.		This is a FIRST submission of item	ns concerning a filing und	der 35 U.S.	C. 371.	
2.	\boxtimes	This is a SECOND or SUBSEQUE	NT submission of items	concerning	g a filing under 35 U.S.C. 371.	
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.				
4.		The US has been elected (Article 3	31).			
5.		A copy of the International Applica	tion as filed (35 U.S.C. 3	371(c)(2))		
		a. is attached hereto (required	only if not communicate	ed by the In	iternational Bureau).	
		b. has been communicated by	the International Bureau	u.		
		c. \square is not required, as the appli	cation was filed in the Ui	nited States	s Receiving Office (RO/US).	
6.		An English language translation of	the International Applica	ation as file	d (35 U.S.C. 371(c)(2))	
		a. is attached hereto.				
		b. has been previously submit	ted under 35 U.S.C. 154	l(d)(4).		
		c.	n was filed in English.			
7.		Amendments to the claims of the I	nternational Application	under PCT	Article 19 (35 U.S.C. 371(c)(3))	
		a. are attached hereto (require	ed only if not communicate	ated by the	International Bureau).	
		b. have been communicated b	y the International Bure	au.		
		c. have not been made; however, the time limit for making such amendments has NOT expired.				
		d. have not been made and w	ill not be made.			
8.		An English language translation of	the amendments to the	claims und	ler PCT Article 19 (35 U.S.C. 371(c)(3)).	
9.		An oath or declaration of the inven	tor(s) (35 U.S.C. 371(c)	(4)).		
10.		An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).				
Items	s 11 t	o 20 below concern document(s)	or information include	ed:		
11.		An Information Disclosure Stateme	ent under 37 CFR 1.97 a	and 1.98.		
12.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.				
13.		A preliminary amendment.				
14.		An Application Data Sheet under 37 CFR 1.76.				
15.		A substitute specification.				
16.	\boxtimes	A power of attorney and/or change	e of address letter.			
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.				
18.		A second copy of the published international application under 35 U.S.C. 154(d)(4).				
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).				
20.	\boxtimes	Transmittal of Power of Attorney.				

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) INTERNATIONAL APPLICATION NO. 10/562,467 PCT/JP2004/009647			TION NO.	ATTORNEY'S DOCKET NUMBER 126464				
21. The following fees are submitted:				CALCULATIONS PTO USE ONLY				
- I I I I I I I I I I I I I I I I I I I	aro odbriii.				1 10 002 01121			
BASIC NATIONAL FEE (37	CFR 1.492(a)):	····	\$ 300.00	\$				
SEARCH FEE (37 CFR 1.49	92(b)(1)-(3)):			\$				
International preliminary exa the USPTO as IPEA or ISA industrial applicability for all national stage	and favorable as to claims presented in							
International search fee (37	CFR 1.445(a)(2)) pa	aid to USPTO as ISA	\$ 100.00					
International search report put the search fee is paid	provided to USPTO r							
All situations not provided for			\$ 500.00					
EXAMINATION FEE (37 CF				\$				
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage								
Surcharge of \$130.00 for fu	rnishing the search f	ee, the examination fe	e or the oath or	\$				
declaration after the date of TOTAL PAGES OF APPLICATION OVER	÷ 50	= †	x 250 =	\$				
100 (- 100) tround up to next intege	r	!			<u> </u>			
CLAIMS CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	S				
TOTAL CLAIMS	- 20	=	x 50.00 =	\$				
INDEPENDENT CLAIMS	- 3	=	x 200.00 =	\$				
MULTIPLE DEPENDENT C			+ 360.00 =	\$				
		TOTAL OF ABOVE (\$				
Applicant claims small reduced by ½.	entity status. See 3	7 CFR 1.27. The fees	indicated above are	\$				
100000 55 72.			SUBTOTAL =	\$				
Processing fee of \$130.00 f the earliest claimed priority	for furnishing the Eng date (37 CFR 1.492	glish translation later th	nan 30 months from	\$				
		TOTAL	NATIONAL FEE =	\$				
Fee for recording the enclose accompanied by an approp		CFR 3.28, 3.31). \$40	0.00 per property +	\$				
		TOTAL F	EES ENCLOSED =	\$				
				Amount to be				
				refunded:	\$			
2 Check No.	in the amount of \$	to cover the abo	ove fees is enclosed	charged:	1 2			
b. Please charge r sheet is enclose	sheet is enclosed.							
Deposit Accoun	nt No. <u>15-0461</u> . A du	plicate copy of this she	eet is enclosed.	•				
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
NOTE: Where an appro	priate time limit un	der 37 CFR 1.495 has	not been met, a peti	ition to revive (31 et	7 1 7 37(a) or (b))			
must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO:								
OLIFF & BERRIDGE, PLC								
Customer Number: 25944 NAME: James A. Offi REGISTRATION NUMBER: 27,075								
Date March 9, 2006 NAME: John W. Fitzpatrick REGISTRATION NUMBER: 41,018					018			
			/					

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Yukio MIYAIRI et al.

Application No.: 10/562,467

Filed: December 27, 2005 Docket No.: 126464

For: PLASMA GENERATING ELECTRODE AND PLASMA REACTOR

TRANSMITTAL OF POWER OF ATTORNEY AND STATEMENT UNDER 37 CFR § 3.73(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignees.

In compliance with 37 CFR §3.73(b), the undersigned hereby states that <u>NGK</u>

<u>INSULATORS, LTD.</u>; <u>HONDA MOTOR CO.</u>, <u>LTD.</u> are together the assignees of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. A copy of the assignment is attached hereto and is concurrently being submitted for recordation.

The undersigned is authorized to act on behalf of the assignee.

In accordance with 37 CFR §1.36(a), submission of this Power of Attorney revokes any powers of attorney previously given.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

Respectfully submitted.

James A. Oliff Registration No. 27,075

John W. Fitzpatrick Registration No. 41,018

JAO:JWF/crh

Date: March 9, 2006

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GENERAL POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Assignee Name and Address: NGK Insulators, Ltd.

2-56, Suda-cho, Mizuho-ku, Nagoya-city

Aichi-prefecture, 467-8530 Japan

appoints the patent practitioners associated with Oliff & Berridge, PLC Customer Number 25944 to represent it before the United States Patent and Trademark Office in connection with any and all U.S. patent applications assigned to the above-named assignee.

The undersigned is authorized to act on behalf of the assignee.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

October 28, 2004

Typed Name: Takafumi Hochi

akafuni Hoch

Title: Genaral Manager, Legal Affairs & Intellectual Property Department

144 152 4 757 1

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Yukio MIYAIRI et al.

Application No.: New U.S. National Stage of PCT/JP2004/009647

Filed: December 27, 2005 Docket No.: 126464

For: PLASMA GENERATING ELECTRODE AND PLASMA REACTOR

SPECIFIC POWER OF ATTORNEY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Alexandria, VA 22313-1450
HONDA MOTOR CO., LTD, owner or co-owner of the entire right, title and
interest in the above patent application by virtue of:
a. being an inventor, or
b. 🔀 an Assignment
i. 🔀 copy attached, or
ii recorded at Reel, Frame of the Patent Office microfilm records,
hereby appoints the patent practitioners associated with Oliff & Berridge, PLC
a second as attenuate of record to prosecute this application and all continuation

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office.

The undersigned has reviewed the chain of title and confirms that the aforesaid title is in the owner. The undersigned is authorized to execute this document as or on behalf of the owner.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

3 FEB 2006

Date

M1. / Lagrino
Signature

Typed Name: Michiyoshi HAGINO

Senior Managing and

Title: Representative Director

(if acting on behalf of an Owner)

Assignment

譲渡証

Japanese Language Assignment

(1-8)	Insert Name(s) of Inventor(s) 発明者の氏名を記入すること				
(1)	Yukio MIYAIRI				
(2)	Yasumasa FUJIOKA				
(3)	Masaaki MASUDA				
(4)	Takeshi SAKUMA				
(5)					
(6)					
(7)					
(8)					
各々の署名人に対して支払われた総額 1 ドル (\$1.00)および他の適切な有価約因を考慮して、各々の署名人は		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to			
(9)	Insert Name of Assignee				
(9)	護受人氏名を記入すること NGK Insulators, Ltd. and Honda Motor Co., Ltd.				
(10)	Insert Address of Assignee 譲受人住所を記入すること				
(10)	2-56, Suda-cho, Mizuho-ku, Nagoya-city, Aichi-pr	efecture, 467-8530 Japan and			
	1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo	, 107-8556 Japan			
譲の国明証衆人と、政策の国明証の関係を関いた。	i受人と称する)に対して、譲渡に同意し、ここに、米国法第 35 章第 100 条に定義されるごとく、こおよび仮出願、非仮出願、分割出願、継続出願、顧、差替え出願、及び再発行出願、および前記発するすべての特許証、延長証、再発行証、再審査む特許のための全ての出願において、アメリカ合ためのすべての権利、所有権、および利益を譲受承人、後継者、被譲渡者、および法定代理人に移び譲渡し、	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as			
(11)	Insert Identification such as Title, Case Number, or Foreign Application Number				
	名称、事件番号、もしくは外国出願番号のよう な確認事項を記入のこと				
(11)	PLASMA GENERATING ELECTRODE AND	D PLASMA REACTOR			

前記署名人が下記の日付でアメリカ合衆国において特許 出願を履行するものであり、

or

もしくは

- (12) Insert Date of Signing of Application 出願に署名する日付を記入のこと
- (12) on
- (13) Alternative Identification for filed applications 提出された出願のための代案確認事項
- (13) U.S. application Serial Number 右記の米国出願整理番号で filed

上記日付において提出されたものである。

- 1)各々の署名人は前記発明のための出願関係および、継続出願、分割出願、再発行出願およびこの件に関しての発行する特許において、必要な全ての書類を履行することに同意し、譲受人が必要と思われる、このような出願および特許に関しての別途譲渡証を履行することにも同意する。
- 2)各々の署名人は、前記発明のための、出願もしくは継続出願、もしくはその分割出願、特許もしくはそれに基づく再発行出願に関して宣言されるインターフェレンスに関して必要な全ての書類を履行することに同意し、証拠取得およびそのようなインターフェレンスを進行するにあたり、いかなる方法においても前記譲受人と協力することに同意する。
- 3)各々の署名人は、すべての用紙および書類を履行し、国際工業所有権保護協定の請求もしくは規定もしくは類似協定に関して必要ないかなる行為を施行することに同意する。
- 4)各々の署名人は、前記譲受人に対して有 効な米国特許の承認を取得し、維持し、もしく は再発行もしくは再審査により、確認するため に、必要なすべての積極的な行為を履行するこ とに同意する。
- 5)各々の署名人は、米国特許商標庁長官に前記出願から発生したすべての米国特許証を、全ての利益の譲受人としての前記譲受人に対けることを許可および請求し、ここに召名するにおいて、署名人は全ての利益を設っての権利を有し、対立関係にある協力を過去に履行することなくもしくは将来履行とないことを誓約し、この協定が前記譲受人、譲受人の継承人、後継者、被譲渡者、および法定代理人に法的義務を負わせるものであることに同意する。
- 6)各々の署名人は、この書類の記録上、米 国特許商標庁の規定に従うために、必要もしく は所望であればこの譲渡証にさらに確認事項を 記入するための権利が オリフ・ベッリジ法律弁 護士事務所(Oliff & Berridge)に付与されている ことをここに承認する。

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith

- Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of Oliff & Berridge the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

証人立ち会いのもとで、署名人覧の隣の日付をもってこ の署名が履行される。			In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).			
Date 日付	Novembor 29/2005	Inventor Signature 発明者署名	April Migain	(SEAL 印)	
Date 日付	November 29 /2005	Inventor Signature 発明者署名	Yasumesa Fijioka	(SEAL 印)	
Date 日付	November 29/2005	Inventor Signature 発明者署名	Masaaki Masuda	(SEAL 印)	
Date 日付	November 29/2005	Inventor Signature 発明者署名	Takedi! Sahuma	(SEAL 印)	
Date 日付		Inventor Signature 発明者署名		(SEAL 印)	
Date 日付		Inventor Signature 発明者署名		(SEAL 印)	
Date 日付		Inventor Signature 発明者署名		(SEAL 印)	
Date 日付		Inventor Signature 発明者署名		(SEAL 印)	
この譲渡証は(a)アメリカ合衆国内で署名される際には 公証人の目前で、(b)アメリカ合衆国外で署名される際 には米国領事の目前で署名されるべきである。(a)もし くは(b)が不可能な際には、下記に署名する少なくとも 二人の証人の目前で署名されるべきである。			This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:			
Date 日付		Witness 証人				
Date 日付		Witness 証人				

1 10 6 6